Copper

Sample ID	Sample Type	Copper (mg/kg)
AOC50-BOT01	N1	24.13
AOC50-BOT01	FD1	14.5
AOC50-BOT02	N1	9.19
AOC50-BOT03	N1	13.81
AOC50-BOT05	N1	21.57
AOC50-BOT06	N1	10.98
AOC50-SW01	N1	7.19
AOC50-SW02	N1	6.89
AOC50-SW03	N1	11.39
AOC50-SW04	N1	14.55
AOC50-SW05	N1	16.15
AOC50-SW05	FD1	15.86
AOC50-SW11	N1	4.46
AOC50-SW12	N1	4.51
AOC50-SW13	N1	2.11

Summary Statistics for	Copper (mg
Number of Samples	13
Minimum	2.11
Maximum	24.13
Mean	11.30231
Median	10.98
Standard Deviation	6.637742
Variance	44.05962
Coefficient of Variation	0.587291
Skewness	0.600047

95 % UCL (Assuming Normal Data)

Student's-t	14.58346

95 % UCL (Adjusted for Skewness)

Adjusted-CLT	14.65782
Modified-t	14.63452

95 % Non-parametric UCL

CLT	14.33045
Jackknife	14.58346
Standard Bootstrap	14.21333
Bootstrap-t	15.14199
Chebyshev (Mean, Std)	19.32695

Summary Statistics for	ln(Copper (mg/kg))
Minimum	0.746687948
Maximum	3.18345588
Mean	2.233652817
Standard Deviation	0.693237649
Variance	0.480578438
Shapiro-Wilk Test Statisitic	**0.956405273**
Shapiro-Wilk 5% Critical Value	0.866

Data are Lognormal at 5% Significance Level

Estimates Assuming Lognormal Distribution

MLE Mean	11.86914335
MLE Standard Deviation	9.323206221
MLE Coefficient of Variation	0.785499505
MLE Skewness	2.841159149
MLE Median	9.333898911
MLE 80% Quantile	16.76743531
MLE 90% Quantile	22.74768078
MLE 95% Quantile	29.19591348
MLE 99% Quantile	46.81125144
MVU Estimate of Median	9.162733508
MVU Estimate of Mean	11.61233828
MVU Estimate of Std. Dev.	8.485738751
MVU Estimate of SE of Mean	2.334691419

UCL Assuming Lognormal Distribution

95% H-UCL	**19.06577048**
95% Chebyshev (MVUE) UCL	21.78902224
99% Chebyshev (MVUE) UCL	34.84222459

Recommended UCL to use:
H-UCL

Note: The samples highlighted in grey were not used in the UCL calculation. The highest value of the parent sample or the field duplicate sample was used for the UCL calculation.

The samples highlighted in yellow were the samples that exceeded the background concentration for copper.

The values in bold are the values used for reporting the UCL.